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(6497, 52)

United States  
Department  
of Agriculture

Forest Service

Intermountain  
Research Station

General Technical  
Report INT-292

December 1992



# Idaho's Rare Vascular Flora: Bibliography, 1896-1991



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THE COMPILERS

**ROBERT K. MOSELEY** is plant ecologist for the Idaho Department of Fish and Game's Conservation Data Center in Boise. Previously, he was natural areas ecologist for The Nature Conservancy in Idaho. He holds a B.S. degree in range resources and an M.S. degree in botany from the University of Idaho.

**MICHAEL MANCUSO** is research biologist with the Conservation Data Center in Boise. He has a B.S. degree in microbiology from Colorado State University and an M.N.S. degree in biological sciences from the University of Idaho. He held several temporary positions with the Forest Service, U.S. Department of Agriculture, University of Idaho, and University of Wyoming prior to his present position.

**ANNE HEDRICH** is science reference librarian at Utah State University in Logan. She earned a B.S. degree in biological aspects of conservation, a certificate in environmental studies, and an M.A. degree in library and information studies from the University of Wisconsin-Madison. Her past work experience includes a number of temporary positions with the Forest Service and several natural resource libraries.

**NANCY L. SHAW** is botanist with the Intermountain Research Station at the Forestry Sciences Laboratory in Boise. She completed a B.S. degree in zoology at the College of Idaho, an M.S. degree in botany at Idaho State University, and a Ph.D. degree in crop science at Oregon State University.

ACKNOWLEDGMENTS

This bibliography was completed under a cooperative agreement between the Intermountain Research

Station, Forest Service, U.S. Department of Agriculture, and the Idaho Department of Fish and Game. We gratefully acknowledge the assistance of George Stephens, information manager at the Conservation Data Center, and Ruth Meerkatz, senior enrollee, stationed at the Intermountain Research Station's Forestry Sciences Laboratory in Boise, ID, for her assistance in processing orders and assembling publication files.

RESEARCH SUMMARY

This bibliography of published and unpublished literature relating to Idaho's rare vascular flora covers the period from 1896 to 1991. It provides biologists, managers, and planners an information base so that past efforts are not duplicated, gaps in our knowledge can be identified and filled, and we can efficiently proceed with the conservation of rare plants in Idaho. The references came from the Source Abstract database of the Idaho Conservation Data Center's Biological and Conservation Data System, an accessible and dynamic information management system directed to the conservation of biological diversity. Keywords pertaining to the subject and species covered are included with each bibliographic entry. Entries are indexed by species.

CONTENTS

Introduction ..... 1  
Bibliography ..... 2  
Index ..... 74

**Cover Illustration:** *Calachontus nitidus*, drawn by Lenora Oosterhuis.

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# Idaho's Rare Vascular Flora: Bibliography, 1896-1991

Compilers:

Robert K. Moseley  
Michael Mancuso  
Anne Hedrich  
Nancy L. Shaw

## INTRODUCTION

Biological diversity—especially in the conservation of rare species and natural ecosystems—is now a major international concern. Increasingly at local levels, researchers and land managers search for ways to contribute to the knowledge needed to solve biodiversity problems. In our effort toward conservation of rare plants in Idaho, we compiled this bibliography to provide biologists, managers, and planners an information base so that past efforts are not duplicated, gaps in our knowledge can be identified and filled, and conservation efforts can proceed efficiently.

When it began in 1984, the Idaho Department of Fish and Game's Conservation Data Center (formerly the Idaho Natural Heritage Program) inherited a two-decade accumulation of information pertaining to Idaho's rare plants. Much of this knowledge came from the personal experiences and extensive data compilation efforts of the Rare and Endangered Plants Technical Committee of the Idaho Natural Areas Council. The Technical Committee—consisting of Robert Steele (chair), Steven Brunsfeld, Douglass Henderson, Karl Holte, Frederic Johnson, and Patricia Packard—laid the foundation for rare plant conservation activities in the State and produced the first assessments of the status of Idaho's rare flora (see entries 694 and 695). Over its 8 years' existence, the Idaho Conservation Data Center has built upon this foundation and become the State's central clearinghouse and repository for rare plant data.

The Idaho Conservation Data Center is part of a worldwide information network directed toward the conservation of biological diversity. The network maintains permanent and dynamic atlases and databases on the existence, characteristics, numbers, condition, status, location, and distribution of rare species and communities. Developed and supported by The Nature Conservancy, this standardized information management methodology includes computerized databases known as the Biological and Conservation Data System (BCD). This bibliography was generated from one of the BCD databases, known as the Source Abstract database. In addition

to the computerized files, the Idaho Conservation Data Center maintains manual files, which include all of the references cited here.

The bibliography includes both published articles and unpublished reports pertaining to the conservation and management of Idaho's rare vascular flora and issued from 1896 through 1991. Taxa appearing on the Idaho Native Plant Society's 1991 list of rare vascular plants for Idaho (see entry 371) formed the basis for this project. However, no sources were located for many taxa. An alphabetical list of the taxa covered by this bibliography appears in the Index. The Index contains only rare species names and may not necessarily reflect other names that appear in publication titles. Spellings for scientific names are taken from the Idaho Native Plant Society's 1991 list.

A majority of the published literature was located through computerized, global literature searches, conducted for each taxon. About 300 databases were searched to locate information. For some species, searches were conducted in all databases available through the Dialog® vending service. Because of time and monetary constraints, eight particularly useful databases (Agricola, Biosis Previews®, CAB Abstracts, CRIS/USA, Environmental Bibliography, Dissertation Abstracts Online, Geobase™, and Pascal) were consulted for most of the species. All searching was done using scientific names. In general, we excluded sources relating to pharmacology and biochemistry and foreign language publications without English abstracts.

Unpublished reports included in the bibliography pertain primarily to rare taxa as they occur in Idaho and adjacent areas. We did not make an attempt to locate unpublished sources from throughout the range of widely distributed taxa.

Although the Source Abstract record contains many information fields, we used only two to produce this bibliography: CITATION and KEYWORDS. Other fields, such as ABSTRACT, are not included here due to space limitations but are available on request from the Idaho Conservation Data Center (see address at the end of this section).

Each entry consists of two parts:

- A. Bibliographic citation—numbered and listed alphabetically by the senior author's surname.
- B. Keywords—a two-part field:
  1. Taxon or taxa included in the reference. Several references, such as checklists, rare plant field guides, and floras, contain information on many rare taxa and are indicated as "multispecies."
  2. Subject category(ies) of the reference, falling into one or more of eight general areas:
    - a. Biology—pertains to a variety of studies relating to a species' biology not covered in other categories, including reproductive strategy, pollination, seed dispersal, seed biology, seedling ecology, nature of mortality, anatomy and morphology, pathology, physiology, and mycorrhizal associations, among others.
    - b. Community ecology—reference relating to the taxon.
    - c. Distribution—relating to the geographical occurrence or range of a taxon or a biogeographical analysis of the taxon or related group.
    - d. Genetics—relating to the genetics of a taxon.
    - e. Management techniques—relating to the management or recovery of a taxon, or both.
    - f. Monitoring—pertaining to the quantitative assessment of a taxon over time.
    - g. Status survey—comprehensive review of the distribution, abundance, and conservation status of a taxon throughout all or a portion of its range.
    - h. Taxonomy—taxon description or monograph of family, tribe, or genus.

The index assists in the use of the bibliography. It lists the numbers of the bibliographic entries for each taxon.

As with all our BCD databases, the Source Abstract database is constantly being updated as older sources are brought to our attention and new information becomes available. We welcome corrections and additions, which can be forwarded to us at:

Conservation Data Center  
Idaho Department of Fish and Game  
600 S. Walnut, P.O. Box 25  
Boise, ID 83843

Phone: (208) 334-3402  
FAX: (208) 334-2114

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Multispecies

Distribution, taxonomy

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Taxonomy

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Multispecies

Distribution, taxonomy

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Distribution, taxonomy

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*Aster jessicae*

Taxonomy

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*Castilleja pulchella*

Biology, community ecology

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*Potamogeton diversifolius*

Community ecology

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*Scirpus subterminalis*

Biology

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Taxonomy

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*Kobresia bellardii*

Community ecology

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*Ranunculus gelidus*, *Ranunculus pygmaeus*

Taxonomy

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*Polypodium glycyrrhiza*, *Trientalis latifolia*

Community ecology

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*Cicuta bulbifera*

Taxonomy

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*Carex chordorrhiza*, *Carex comosa*, *Carex flava*

Biology

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Status survey

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*Allium tolmiei persimile*  
Status survey

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*Astragalus kentrophyta jessiae*  
Status survey

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Monitoring

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*Cornus nuttallii*  
Biology, management techniques

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Multispecies  
Distribution

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Multispecies  
Distribution

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Distribution

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*pacificus*, *Sanicula marilandica*, *Scheuchzeria*  
*palustris*  
Status survey

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Biology

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Multispecies  
Distribution

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*Peraphyllum ramosissimum*  
Biology, distribution

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*Carex buxbaumii*, *Salix candida*  
Community ecology

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*Thalictrum dasycarpum*  
Distribution, taxonomy

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*Allium aaseae*  
Biology, management techniques

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Community ecology, monitoring

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Community ecology, management techniques

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*Rhynchospora alba*, *Vaccinium oxycoccos*  
Monitoring

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Biology, monitoring

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Community ecology, distribution

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*Botrychium lunaria*  
Taxonomy

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Distribution, taxonomy

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*Kobresia simpliciuscula*, *Lychnis apetala montana*,  
*Saxifraga cernua*  
Distribution

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*Scirpus subterminalis*  
Distribution

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Multispecies  
Distribution

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Biology, management techniques

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*Ceanothus prostratus*  
Management techniques

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*Cypripedium fasciculatum*  
Distribution

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*Cypripedium fasciculatum*  
Distribution, taxonomy

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*Peraphyllum ramosissimum*  
Biology

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Multispecies  
Community ecology, distribution

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Multispecies  
Status survey

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*Parnassia kotzebuei kotzebuei*  
Distribution

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Distribution, taxonomy

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*Betula pumila glandulifera*  
Distribution, taxonomy

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*Erigeron salmonensis*  
Distribution, taxonomy

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*Epipactis gigantea*  
Biology, distribution

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- Carex comosa*  
Distribution
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Biology, taxonomy
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- Multispecies  
Community ecology, distribution
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- Multispecies  
Status survey
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- Cornus nuttallii*  
Biology
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Status survey
132. Caicco, Steven L. 1987. Field investigations of selected sensitive plant species on the Idaho Panhandle National Forests. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 44 p. plus appendices.
- Multispecies  
Status survey
133. Caicco, Steven L. 1987. Field investigations of selected sensitive plant species on the Nez Perce National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 42 p. plus appendices.
- Calochortus nitidus*, *Cardamine constancei*, *Festuca subuliflora*, *Mimulus clivicola*, *Penstemon elegantulus*  
Status survey
134. Caicco, Steven L. 1987. National Natural Landmark evaluation. Aquarius proposed Research Natural Area (Idaho). Prepared for: U.S. Department of the Interior, National Park Service, Seattle, WA. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 24 p. plus appendices.
- Cardamine constancei*, *Carex hendersonii*, *Corydalis caseana hastata*, *Cypripedium fasciculatum*, *Dodecatheon dentatum*, *Mimulus clivicola*, *Polypodium glycyrrhiza*, *Thelypteris nevadensis*, *Trientalis latifolia*  
Status survey
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Monitoring, status survey
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- Calochortus nitidus*  
Monitoring
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and Game, Conservation Data Center, Boise, ID. 54 p. plus appendices.

*Calochortus nitidus*  
Status survey

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*Draba trichocarpa*  
Status survey

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*Thelypodium repandum*  
Status survey

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*Carex aenea*, *Carex buxbaumii*, *Carex californica*,  
*Carex flava*, *Carex hendersonii*, *Carex idahoensis*, *Carex livida*, *Carex paupercula*, *Carex tumulicola*  
Status survey

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*Astragalus paysonii*, *Carex californica*, *Dasynotus daubenmirei*, *Ivesia tweedyi*, *Synthyris platycarpa*  
Status survey

142. Caicco, Steven L. 1989. Second-year results of an investigation into the life history and population dynamics of *Calochortus nitidus* Dougl. (Liliaceae). Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 11 p. plus appendices.

*Calochortus nitidus*  
Biology, management techniques

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*Calochortus nitidus*  
Biology, monitoring

144. Caicco, Steven L. 1992. *Calochortus nitidus* species management guide. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 32 p. plus appendices.

*Calochortus nitidus*  
Management techniques

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*Astragalus leptaleus*  
Distribution

146. Caicco, Steven; Henderson, Douglass M. 1981. A survey of the rare plants of the Challis National Forest Lost River District - west side, with recommendations and management implications. Unpublished report on file at: University of Idaho, University of Idaho Herbarium, Moscow, ID. 45 p. plus supplement.

Multispecies  
Distribution, status survey

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*Thalictrum dasycarpum*  
Distribution

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*Elaeagnus commutata*  
Biology

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*Dryopteris cristata*  
Distribution

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- Hackelia ophiobia*  
Taxonomy
151. Caruso, Laura B. 1988. Biological evaluation for *Calamagrostis tweedyi* in the Dry Meadows Planning Area and the Jungle Ridge Timber Sale on the Naches Ranger District of the Wenatchee National Forest. Unpublished paper on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 9 p.
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Distribution
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- Allotropa virgata*  
Biology
153. Catling, P. M.; Freedman, B.; Stewart, C.; Kerekes, J. J.; Lefkovitch, L. P. 1986. Aquatic plants of acid lakes in Kejimikujik National Park, Nova Scotia: floristic composition and relation to water chemistry. *Canadian Journal of Botany*. 64(4): 724-729.
- Scirpus subterminalis*  
Community ecology, distribution
154. Chadde, Steve. 1989. Survey of plants of limited distribution, Kootenai National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 82 p.
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Status survey
155. Chambers, Jeanne C.; MacMahon, James A.; Brown, Ray W. 1990. Alpine seedling establishment: the influence of disturbance type. *Ecology*. 71(4): 1323-1341.
- Draba incerta*  
Biology
156. Chambers, Kenton L. 1973. Floristic relationships of Onion Peak with Saddle Mountain, Clatsop County, Oregon. *Madroño*. 22(3): 105-114.
- Blechnum spicant*, *Maianthemum dilatatum*, *Polypodium glycyrrhiza*, *Tellima grandiflora*, *Trientalis latifolia*  
Distribution
157. Charlesworth, Nancy; Atwood, Duane. 1987. Status report on *Hackelia davisii*. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. Not paged.
- Hackelia davisii*  
Status survey
158. Cholewa, Anita; Henderson, Douglass. 1983. Noteworthy collections: Idaho. *Madroño*. 30: 63-64.
- Astragalus kentrophyta jessiae*, *Gilia polycladon*, *Lesquerella kingii cobrensis*  
Distribution
159. Cholewa, Anita; Henderson, Douglass M. 1984. A survey and assessment of the rare vascular plants of the Idaho National Engineering Laboratory. Idaho Falls, ID: U.S. Department of Energy, Radiological and Environmental Sciences Laboratory; DOE/ID-12100. 45 p.
- Multispecies  
Status survey
160. Cholewa, Anita F.; Henderson, Douglass M. 1982. A survey and assessment of the rare vascular plants of the Idaho National Engineering Laboratory site. Unpublished report on file at: University of Idaho, University of Idaho Herbarium, Moscow, ID. 38 p.
- Astragalus ceramicus apus*, *Astragalus gilviflorus*, *Astragalus kentrophyta jessiae*, *Coryphantha missouriensis*, *Gilia polycladon*, *Gymnosteris nudicaulis*, *Lesquerella kingii cobrensis*, *Oxytheca dendroidea*  
Status survey
161. Cholewa, Anita F.; Henderson, Douglass M. 1984. A survey and assessment of the rare vascular plants of the Idaho National Engineering Laboratory site. *Great Basin Naturalist*. 44(1): 140-144.
- Multispecies  
Status survey



162. Cholewa, Anita F.; Henderson, Douglass M. 1984. *Primula alcalina* (Primulaceae): a new species from Idaho. *Brittonia*. 36(1): 59-62.  
*Primula alcalina*  
Distribution, taxonomy
163. Chuang, Tsan-Iang; Hsieh, Winston C.; Wilken, Dieter H. 1978. Contribution of pollen morphology to systematics of *Collomia* (Polemoniaceae). *American Journal of Botany*. 65(4): 450-458.  
*Collomia debilis camporum*  
Taxonomy
164. Churchill, Steven P.; Kaul, Robert B.; Sutherland, David M. 1974-1976. New records of native and introduced plants from Nebraska. *Transactions of the Nebraska Academy of Sciences*. 3: 32-36.  
*Corallorhiza wisteriana*  
Distribution
165. Churchill, Steven P.; Kaul, Robert B.; Sutherland, David M. 1976. New and noteworthy plant records for Nebraska. *The Southwestern Naturalist*. 21(3): 403-405.  
*Corallorhiza wisteriana*  
Distribution
166. Clausen, Robert T., ed. 1975. *Sedum of North America north of the Mexican plateau*. Ithaca, NY: Cornell University Press. 784 p.  
*Sedum borschii*, *Sedum rupicolum*  
Distribution, taxonomy
167. Clement, Stephen L.; Miller, Donald H. 1982. Insect seed predation on *Astragalus bisulcatus* (Hook.) Gray (Leguminosae). *Pan-Pacific Entomologist*. 58(1): 38-41.  
*Astragalus bisulcatus*  
Biology
168. Cody, William J. 1975. *Scheuchzeria palustris* L. (Scheuchzeriaceae) in northwestern North America. *The Canadian Field-Naturalist*. 89: 69-71.  
*Scheuchzeria palustris*  
Distribution
169. Cody, William J.; Talbot, Stephen S. 1978. Vascular plant range extensions to the Heart Lake area, District of Mackenzie, Northwest Territories. *The Canadian Field-Naturalist*. 92(2): 137-143.  
*Rhynchospora alba*  
Distribution
170. Coleman, R. W.; Welsh, S. L. 1981. Plants from northern Manitoba, Canada and their substrates. In: *Proceedings of the Iowa Academy of Science: 93rd meeting of the Iowa Academy of Science*; 1981 April; Cedar City, IA: 13. Abstract.  
*Ledum groenlandicum*, *Scirpus cyperinus*  
Distribution
171. Coleman, Ronald A. 1986. The habitat and variation of *Epipactis gigantea* in the Santa Monica Mountains. *The Orchid Digest*. 50(2): 66-68.  
*Epipactis gigantea*  
Distribution
172. Coleman, Ronald A. 1987. *Epipactis gigantea* revisited. *The Orchid Digest*. 51(4): 203-204.  
*Epipactis gigantea*  
Distribution
173. Comeau, Paul L.; Beil, Charles E. 1984. Raised bogs on the Cape Breton Plateau. *Proceedings of the Nova Scotian Institute of Science*. 34(1): 41-81.  
*Ledum groenlandicum*, *Rhynchospora alba*, *Vaccinium oxycoccos*  
Community ecology
174. Connolly, B. J.; Grigal, D. F. 1983. Biomass estimation equations for wetland tall shrubs. *Min. For. Res. Notes* 284. *Miscellaneous Journal Series Paper* 1866. St. Paul, MN: University of Minnesota Agricultural Experiment Station. Not paged.  
*Betula pumila glandulifera*  
Community ecology
175. Connolly-McCarthy, B. J.; Grigal, D. F. 1985. Biomass of shrub-dominated wetlands in Minnesota. *Forest Science*. 31(4): 1011-1017.  
*Betula pumila glandulifera*  
Community ecology
176. Constance, Lincoln; Rollins, Reed. 1936. New or otherwise noteworthy northwestern plants - II: two new species from the Grand Canyon of the Snake River. *Proceedings of*

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Distribution

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Community ecology

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Management techniques
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Taxonomy



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Biology, status survey, taxonomy
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Taxonomy
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Taxonomy

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Taxonomy
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Status survey
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Status survey
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Status survey
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Community ecology, distribution



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Distribution
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Taxonomy
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Distribution
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Community ecology
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Distribution
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Distribution
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Distribution
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Taxonomy
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Distribution, taxonomy

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Community ecology

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Taxonomy

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Multispecies

Distribution

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Multispecies

Distribution

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Distribution

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Distribution

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Multispecies

Distribution

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Distribution

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*Polypodium glycyrrhiza*

Taxonomy

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Distribution

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Community ecology, distribution

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Distribution

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Multispecies

Community ecology, distribution

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*Andromeda polifolia*

Management techniques



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Distribution, taxonomy
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Status survey
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Biology, community ecology, distribution
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Distribution
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Community ecology
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Distribution
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Distribution
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Community ecology, status survey
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Biology
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Biology
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Biology, monitoring
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Biology, monitoring

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*Howellia aquatilis*  
Biology

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Community ecology, distribution

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*Silene spaldingii*  
Biology

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*Carex comosa*, *Kobresia simpliciuscula*, *Primula alcalina*, *Scirpus cyperinus*  
Distribution

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*Howellia aquatilis*  
Biology, distribution, genetics

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*Howellia aquatilis*  
Biology, distribution, genetics

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Multispecies  
Distribution

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Multispecies  
Distribution

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*Cornus nuttallii*  
Monitoring

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Multispecies  
Monitoring

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*Allotropa virgata*  
Monitoring, status survey



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*Bouteloua gracilis*, *Stipa viridula*  
Biology

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*Bouteloua gracilis*, *Carex stenophylla*, *Coryphantha vivipara*, *Hymenoxys richardsonii*, *Stipa viridula*  
Community ecology, distribution

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*Betula pumila glandulifera*  
Community ecology

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*Andromeda polifolia*  
Biology

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*Andromeda polifolia*, *Vaccinium oxycoccos*  
Biology

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*Eburophyton austiniae*  
Distribution

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Multispecies  
Community ecology, distribution

487. Lorain, Christine C. 1989. Field investigation of *Festuca subuliflora* (crinkle-awn fescue), a Region 1 sensitive species, on the Nez Perce and Clearwater National Forests. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 8 p. plus appendices.

*Festuca subuliflora*  
Status survey

488. Lorain, Christine C. 1989. Field investigation of *Tauschia tenuissima*, a Region 1 sensitive species on the Clearwater National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 7 p. plus appendices.

*Tauschia tenuissima*  
Status survey

489. Lorain, Christine C. 1989. Field investigations of three Region 1 sensitive species on the Clearwater National Forest: *Asplenium trichomanes* (Maidenhair spleenwort), *Thelypteris nevadensis* (Sierra woodfern), and *Dodecatheon hendersonii* (Henderson's shooting star); plus new locations for additional sensitive species. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 19 p. plus appendices.

Multispecies  
Status survey

490. Lorain, Christine C. 1990. Field investigations of *Astragalus paysonii* (Payson's milk-vetch), a Region 1 sensitive species on the Nez Perce National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 11 p. plus appendices.

*Astragalus paysonii*  
Status survey

491. Lorain, Christine C. 1990. Field investigations of *Botrychium* subgenus *Botrychium* (Moonworts), on the Idaho Panhandle National Forests. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 34 p. plus appendices.

*Botrychium crenulatum*, *Botrychium lanceolatum*,  
*Botrychium lanceolatum*, *Botrychium manganense*, *Botrychium pinnatum*, *Botrychium simplex*  
Status survey

492. Lorain, Christine C. 1990. Report on the conservation status of *Antennaria arcuata* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 42 p. plus appendices.

*Antennaria arcuata*

Status survey

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*Tauschia tenuissima*

Status survey

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*Cornus nuttallii*

Management techniques, monitoring

495. Lorain, Christine C. 1990. Species management guide for *Juncus effusus* var. *pacificus* (soft rush) on the Clearwater National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 10 p. plus appendices.

*Juncus effusus pacificus*

Management techniques, status survey

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Multispecies

Distribution, management techniques

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*Cornus nuttallii*

Monitoring

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Multispecies

Distribution

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*Aster jessicae*

Status survey

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*Silene spaldingii*

Status survey

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*Grindelia howellii*

Management techniques, status survey

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*Mimulus clivicola*

Management techniques, monitoring

503. Lorain, Christine C. 1991. Study plan: long-term demographic and community monitoring of *Cornus nuttallii* (Pacific dogwood), in Idaho. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 7 p. plus appendices.

*Cornus nuttallii*

Monitoring



504. Lorain, Christine C.; Moseley, Robert K. 1989. Field investigation of *Mimulus clivicola* (bank monkeyflower), a Region 1 sensitive species, on the Clearwater and Nez Perce National Forests. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 15 p. plus appendices.
- Mimulus clivicola*  
Status survey
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Status survey
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Taxonomy
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- Papaver kluanense*  
Distribution, taxonomy
508. Lovis, J. D. 1964. The taxonomy of *Asplenium trichomanes* in Europe. British Fern Gazette. 9: 147-160.
- Asplenium trichomanes*  
Taxonomy
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- Andromeda polifolia*  
Community ecology
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- Allotropa virgata*  
Community ecology
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- Corallorhiza wisteriana*, *Cypripedium calceolus parviflorum*  
Distribution
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- Cypripedium calceolus parviflorum*  
Taxonomy
513. Magrath, Lawrence K.; Weedon, Ronald R. 1974. New and interesting plants from the Central Plains States. Rhodora. 76: 489-490.
- Corallorhiza wisteriana*  
Distribution
514. Maguire, Bassett. 1939. Distribution notes concerning plants of Glacier National Park, Montana - II. Rhodora. 41: 504-508.
- Eriophorum viridicarinarum*, *Habenaria obtusata*, *Scirpus hudsonianus*, *Scirpus subterminalis*  
Distribution
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- Epilobium palustre*  
Community ecology
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- Epipactis gigantea*  
Status survey
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- Haplopappus radiatus*  
Status survey

518. Mancuso, Michael; Moseley, Robert K. 1990. Field investigations of *Astragalus jejunus* (starveling milkvetch), *Cryptantha breviflora* (Uinta Basin cryptanth) and *Eriogonum brevicaule* var. *laxifolium* (varying buckwheat) on the Caribou National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 25 p. plus appendices.
- Astragalus jejunus*, *Cryptantha breviflora*  
Status survey
519. Mancuso, Michael; Moseley, Robert K. 1990. Field investigation of *Astragalus vexilliflexus* var. *nubilus* (White Cloud milkvetch), a Region 4 sensitive species, on the Sawtooth National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Idaho Natural Heritage Program, Boise, ID. 12 p. plus appendices.
- Astragalus vexilliflexus nubilus*  
Status survey
520. Mancuso, Michael; Moseley, Robert K. 1990. Field investigation of *Chrysothamnus parryi* ssp. *montanus*, a Region 4 sensitive species, on the Targhee National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 11 p. plus appendices.
- Chrysothamnus parryi montanus*  
Status survey
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- Erythronium grandiflorum nudipetalum*  
Status survey
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- Astragalus anserinus*  
Status survey
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- Penstemon idahoensis*  
Status survey
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- Allium tolmiei platyphyllum*, *Calochortus nitidus*, *Erigeron engelmannii davisii*, *Lomatium rollinsii*, *Mimulus clivicola*, *Mimulus washingtonensis ampliatius*, *Mirabilis macfarlanei*, *Pediocactus simpsonii robustior*, *Penstemon elegantulus*, *Rubus bartonianus*  
Status survey
525. Marcks, Brian G. 1974. Preliminary reports on the flora of Wisconsin No. 66. Cyperaceae II - sedge family II. The genus *Cyperus* - the umbrella sedges. Transactions of the Wisconsin Academy of Sciences, Arts and Letters. 62: 261-284.
- Cyperus rivularis*  
Distribution
526. Marriott, Hollis. 1986. Status report for *Antennaria arcuata*. Prepared for: Rocky Mountain Heritage Task Force. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 42 p. plus appendices.
- Antennaria arcuata*  
Status survey
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- Claytonia lanceolata flava*  
Status survey
528. Marriott, Hollis. 1989. *Claytonia lanceolata* var. *flava*. In: Clark, Tim W.; Harvey, Ann H.; Dorn, Robert D.; Genter, David L.; Groves, Craig, eds. Rare, sensitive, and threatened species of the Greater



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*Claytonia lanceolata flava*

Status survey

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*Astragalus tetrapterus*

Distribution, taxonomy

530. Marshall, J. D.; Waring, R. H. 1984. Conifers and broadleaf species: stomatal sensitivity differs in western Oregon. Canadian Journal of Forest Research. 14(6): 905-908.

*Cornus nuttallii*

Community ecology, distribution

531. Mason, W. R. M.; Shewell, G. E.; Cody, W. J. 1972. A plant collection from the southern interior of Banks Island, N.W.T. The Canadian Field-Naturalist. 86(4): 363-367.

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*Ranunculus pygmaeus*, *Salix glauca*

Distribution

532. Mathias, Mildred E. 1930. Studies in the Umbelliferae. III. A monograph of *Cymopterus* including a critical study of related genera. Annals of the Missouri Botanical Garden. 17(3/4): 213-476.

*Musineon lineare*

Taxonomy

533. Mathias, Mildred E. 1938. A revision of the genus *Lomatium*. Annals of the Missouri Botanical Garden. 25: 225-297.

*Tauschia tenuissima*

Distribution, taxonomy

534. Mathias, Mildred E.; Constance, Lincoln. 1973. Another look at *Leibergia* Coult. & Rose (Umbelliferae). Madroño. 22: 71-73.

*Tauschia tenuissima*

Taxonomy

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Community ecology

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Taxonomy

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*Peraphyllum ramosissimum*

Genetics, taxonomy

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*Ribes sanguineum*

Management techniques

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*Botrychium simplex*

Distribution

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*Allium madidum*, *Allium punctum*, *Allium tolmiei persimile*, *Allium tolmiei platyphyllum*, *Allium validum*

Taxonomy

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*Lychnis apetala montana*

Taxonomy

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Multispecies

Distribution

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Multispecies

Distribution

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Multispecies

Status survey

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Distribution, taxonomy

546. Meinke, Robert J.; Leary, Patrick J.; Kierstead, Julie. 1986. Noteworthy collections: Oregon. Madroño. 33(3): 228-230.

*Allium tolmiei persimile*, *Allium tolmiei platyphyllum*

Distribution

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*Epipactis gigantea*

Distribution

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*Ribes wolfii*

Taxonomy

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Community ecology

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*Elaeagnus commutata*

Management techniques

551. Miller, Thomas B. 1976. Ecology of riparian communities dominated by white alder in western Idaho. Moscow, ID: University of Idaho. 154 p. Thesis.

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Community ecology

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Taxonomy

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*Peraphyllum ramosissimum*

Community ecology, distribution

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*Bouteloua gracilis*, *Carex stenophylla*

Community ecology

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*Howellia aquatilis*

Management techniques, status survey

556. Moran, Robbin C. 1982. The *Asplenium trichomanes* complex in the United States and adjacent Canada. *American Fern Journal*. 72(1): 5-11.

*Asplenium trichomanes*

Taxonomy

557. Morgenson, Greg. 1990. Pregermination treatment and stratification of silverberry seed. *Tree Planter's Notes*. 41(1): 24-25.

*Elaeagnus commutata*

Biology

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*Stellaria calycantha calycantha*

Taxonomy

559. Moseley, Bob. 1989. Hells Canyon primer: "P" is for plants. *Idaho Wildlife*. 9(2) [Spring]: 7.

*Lomatium rollinsii*, *Mirabilis macfarlanei*

Distribution

560. Moseley, Robert K. 1987. National Natural Landmark evaluation: Little Granite Creek (Idaho). Prepared for: U.S. Department of the Interior, National Park Service, Seattle,

WA. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 23 p. plus appendices.

*Halimolobos perplexa perplexa*, *Leptodactylon pungens hazeliae*, *Rubus bartonianus*

Distribution

561. Moseley, Robert K. 1988. Field investigation of *Calamagrostis tweedyi*, a Region 4 sensitive species, on the Payette National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 10 p. plus appendices.

*Calamagrostis tweedyi*

Status survey

562. Moseley, Robert K. 1988. Field investigation of *Douglasia idahoensis*, a Region 4 sensitive species, on the Payette and Boise National Forests. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 8 p. plus appendices.

*Douglasia idahoensis*

Status survey

563. Moseley, Robert K. 1988. Field investigations of three sensitive plant species endemic to the Stanley Basin area, Sawtooth National Forest: *Draba trichocarpa* Rollins, *Thlaspi aileeniae* Rollins, *Eriogonum meledonum* sp. nov. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 18 p. plus appendices.

*Draba trichocarpa*, *Eriogonum meledonum*, *Thlaspi aileeniae*

Status survey

564. Moseley, Bob. 1988. Species management guide for *Lomatium rollinsii*. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 9 p. plus appendices.

*Lomatium rollinsii*

Management techniques, status survey

565. Moseley, Robert K. 1989. Field investigation of *Allium validum* (tall swamp onion), a Region 4 sensitive species, on the Boise National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 8 p. plus appendices.

*Allium validum*

Status survey

566. Moseley, Robert K. 1989. Field investigations of *Allium validum* (tall swamp onion) and *Douglasia idahoensis* (Idaho douglasia), Region 1 sensitive species, on the Nez Perce National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 16 p. plus appendices.

*Allium validum*, *Douglasia idahoensis*  
Status survey

567. Moseley, Robert K. 1989. Field investigations of *Erigeron salmonensis* and *Hackelia davisii* on the Salmon National Forest, with notes on *Epipactis gigantea*, *Halimolobos perplexa* var. *lemhiensis*, and *Ribes velutinum* var. nov. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 14 p. plus appendices.

*Epipactis gigantea*, *Erigeron salmonensis*, *Hackelia davisii*  
Status survey

568. Moseley, Robert K. 1989. Field investigations of four *Astragali*, all Region 4 sensitive species, on the Salmon National Forest, with notes on two others. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 23 p. plus appendices.

*Astragalus amblytropis*, *Astragalus amnis-amissi*,  
*Astragalus aquilonius*, *Astragalus gilviflorus*  
Status survey

569. Moseley, Robert K. 1989. Field investigations of *Leptodactylon pungens* ssp. *hazeliae* (Hazel's prickly phlox) and *Mirabilis macfarlanei* (Macfarlane's four-o'clock), Region 4 sensitive species, on the Payette National Forest, with notes on *Astragalus vallis* (Snake Canyon milkvetch) and *Rubus bartonianus* (bartonberry). Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 16 p. plus appendices.

*Astragalus vallis*, *Leptodactylon pungens hazeliae*,  
*Mirabilis macfarlanei*, *Rubus bartonianus*  
Status survey

570. Moseley, Robert K. 1989. Field investigations of *Saxifraga bryophora* var. *tobiasiae* (Tobias' saxifrage) a Region 4 sensitive species, on the Payette National Forest, with

notes on *Campanula scabrella* (rough bell-flower). Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 13 p. plus appendices.

*Saxifraga bryophora tobiasiae*  
Status survey

571. Moseley, Robert K. 1989. Field investigations of seven rare alpine plant species in the southern Lemhi Range and Beaverhead Mountains, Dubois Ranger District, Targhee National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 33 p. plus appendices.

*Cymopterus douglassii*, *Cymopterus ibapensis*, *Erigeron humilis*, *Lychnis apetala montana*, *Papaver kluanense*, *Saxifraga cernua*  
Status survey

572. Moseley, Robert K. 1989. Field investigations of 16 rare plant taxa occurring in wetlands on the Bonners Ferry Ranger District, Idaho Panhandle National Forest. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 75 p. plus appendices.

Multispecies  
Status survey

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*Artemisia packardiae*  
Status survey

574. Moseley, Robert K. 1989. Report on the conservation status of *Astragalus mulfordiae* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 31 p. plus appendices.

*Astragalus mulfordiae*  
Status survey

575. Moseley, Robert K. 1989. Report on the conservation status of *Claytonia lanceolata* var. *flava* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished



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*Claytonia lanceolata flava*  
Status survey

576. Moseley, Robert K. 1989. Report on the conservation status of *Phacelia inconspicua* in Idaho. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 18 p. plus appendices.

*Phacelia inconspicua*  
Status survey

577. Moseley, Robert K. 1989. Report on the conservation status of *Primula alcalina*, a proposed Candidate species. Prepared for: Idaho Department of Parks and Recreation. Unpublished report on file at: Idaho Department of Fish and Game, Conservation Data Center, Boise, ID. 32 p. plus appendices.

*Primula alcalina*  
Status survey

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Status survey

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Status survey

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Status survey

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Status survey

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Status survey

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Community ecology

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Community ecology



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Biology

## INDEX

- Adiantum pedatum* L. subalpine ecotype 653, 654  
*Agoseris lackschewitzii* D. Henderson & R. Moseley 41, 337, 470, 661  
*Agrostis oregonensis* Vasey 680, 864  
*Allium aaseae* Ownbey 103, 360, 552, 589, 631, 639, 684  
*Allium anceps* Kellogg 645  
*Allium madidum* S. Wats. 38, 89, 540  
*Allium punctum* Henderson 540  
*Allium tolmiei* Baker var. *persimile* Ownbey 42, 90, 540, 546, 552, 582, 591, 631, 778  
*Allium tolmiei* Baker var. *platyphyllum* (Tidest.) Ownbey 89, 383, 524, 540, 546, 552, 630, 631  
*Allium validum* S. Wats. 540, 565, 566, 631  
*Allotropa virgata* Torr. & Gray ex Gray 43, 152, 180, 274, 410, 479, 510, 810, 818, 821, 884, 885  
*Andromeda polifolia* L. 64, 259, 303, 304, 311, 324, 369, 379, 426, 456, 483, 484, 509, 613, 670, 780, 781, 783  
*Antennaria arcuata* Cronq. 15, 34, 192, 228, 242, 318, 492, 526, 640  
*Arnica alpina* (L.) Olin var. *tomentosa* (Macoun) Cronq. 111, 212, 226, 227, 241, 895  
*Artemisia packardiae* J. Grimes & Ertter 298, 299, 573  
*Asplenium trichomanes* L. 131, 489, 508, 556, 819, 875  
*Asplenium viride* Huds. 196, 248, 584, 593, 718, 861, 927  
*Aster jessicae* Piper 79, 213, 214, 340, 401, 402, 422, 499  
*Astragalus amblytropis* Barneby 44, 568, 627, 719  
*Astragalus amnis-amissi* Barneby ex C. L. Hitchc. 45, 336, 568, 634  
*Astragalus anserinus* Atwood, Goodrich & Welsh 61, 62, 6, 522  
*Astragalus aquilonius* (Barneby) Barneby 46, 568  
*Astragalus atratus* S. Wats var. *inseptus* Barneby 242, 635, 786, 787, 789, 791  
*Astragalus ceramicus* Sheldon var. *apus* Barneby 160, 463  
*Astragalus conjunctus* S. Wats. 74  
*Astragalus diversifolius* Gray 913-915  
*Astragalus drummondii* Dougl. ex Hook. 702  
*Astragalus eucosmus* Robins. 219, 907  
*Astragalus gilviflorus* Sheldon 160, 289, 342, 481, 568, 923  
*Astragalus jejunos* S. Wats. 377, 518, 772  
*Astragalus kentrophyta* Gray var. *jessiae* (M. E. Peck) Barneby 91, 158, 160, 377, 665  
*Astragalus leptaleus* Gray 145, 377, 470, 583  
*Astragalus microcystis* Gray 377  
*Astragalus mulfordiae* M. E. Jones 377, 420, 462, 574, 665, 801, 869  
*Astragalus newberryi* Gray var. *castoreus* M. E. Jones 378  
*Astragalus oniciformis* Barneby 318, 378, 647, 786  
*Astragalus paysonii* (Rydb.) Barneby 141, 361, 378, 490, 924  
*Astragalus purshii* Dougl. var. *ophiogenes* (Barneby) Barneby 242, 378, 646, 801  
*Astragalus riparius* Barneby 74, 378  
*Astragalus salmonis* M. E. Jones 378, 838  
*Astragalus sterilis* Barneby 73, 298, 299, 777, 790, 801  
*Astragalus tetraapterus* Gray 378, 529, 645, 665, 914, 915  
*Astragalus vallis* M. E. Jones 378, 569  
*Astragalus vexilliflexus* Sheldon var. *nubilus* Barneby 74, 228, 378, 519, 827  
*Astragalus yoder-williamsii* Barneby 15, 76, 378, 434, 920  
  
*Bacopa rotundifolia* (Michx.) Wettst. 78  
*Betula pumila* L. var. *glandulifera* Regel 110, 123, 174, 175, 234, 273, 427, 437, 482, 698, 726, 779, 820, 850  
*Blechnum spicant* (L.) Roth 156, 183-185, 439, 461, 506, 796, 811, 817  
*Blepharidachne kingii* (S. Wats.) Hack. 366, 706  
*Botrychium crenulatum* W. H. Wagner 7, 89, 491, 877, 878, 880  
*Botrychium lanceolatum* (Gmel.) Angstr. var. *lanceolatum* 89, 253, 439, 491, 709, 872, 874, 875, 878, 880, 881  
*Botrychium lunaria* (L.) Swartz 7, 109, 229, 230, 876  
*Botrychium minganense* Victorin 7, 89, 97, 253, 322, 491, 804, 872, 874, 876, 878-881  
*Botrychium pinnatum* St. John 491, 709, 727, 804, 828, 872, 878, 881  
*Botrychium simplex* E. Hitchc. 7, 253, 383, 397, 439, 491, 539, 672, 792, 873, 874, 878, 880, 881  
*Bouteloua gracilis* (Willd. ex Kunth) Lag. ex Griffiths 265, 323, 480, 481, 554, 597, 680, 686, 842  
  
*Calamagrostis tweedyi* (Scribn.) Scribn. ex Vasey 47, 151, 423, 561, 814  
*Calandrinia ciliata* (Ruiz & Pavon) DC. 383, 882  
*Calochortus macrocarpus* Dougl. var. *maculosus* (A. Nels. & J. F. Macbr.) A. Nels. & J. F. Macbr. 344, 610, 629  
*Calochortus nitidus* Dougl. 133, 135-137, 142-144, 339, 344, 424, 524, 629  
*Camassia cusickii* S. Wats. 382, 383, 421, 551, 754  
*Camissonia palmeri* (S. Wats.) Raven 665  
*Cardamine constancei* Detling 133, 134, 187, 388, 392, 636, 655, 658, 744, 811  
*Carex aboriginum* M. E. Jones 462, 579



- Carex aenea* Fern 140, 720  
*Carex angustata* Boott 806  
*Carex breweri* Boott var. *paddoensis* (Suksd.) Cronq. 365, 448, 720, 828  
*Carex buxbaumii* Wahlenb. 101, 140, 197, 240, 312-314, 398, 464, 535, 606, 649, 681, 720, 820, 845, 846, 904  
*Carex californica* Bailey 140, 141  
*Carex chordorrhiza* Ehrh. ex L. 88, 105-107, 239, 257, 304, 368, 380, 426, 613, 651, 720, 756, 780  
*Carex comosa* Boott 88, 126, 240, 472, 820  
*Carex flava* L. 88, 97, 104, 140, 189, 196, 200, 313, 364, 380, 391, 578, 720, 752, 753, 894  
*Carex hendersonii* Bailey 134, 140, 461, 811  
*Carex idahoensis* Bailey 65, 140, 463, 470  
*Carex incurviformis* Mack. 448, 587  
*Carex leptalea* Wahlenb. 62, 197, 313, 398, 720, 737, 780  
*Carex livida* (Wahlenb.) Willd. 140, 177, 249, 464, 535, 845, 921, 926  
*Carex paupercula* Michx. 108, 140, 186, 201, 256, 428, 613, 720, 780  
*Carex stenophylla* Wahlenb. 481, 554  
*Carex tumulicola* Mackenzie 140  
*Castilleja christii* N. Holmgren 37, 358  
*Castilleja oresbia* Greenm. 591, 778  
*Castilleja pulchella* Rydb. 80  
*Ceanothus prostratus* Benth. 115, 656, 682, 808, 825, 837, 866  
*Chrysothamnus humilis* Greene 11  
*Chrysothamnus nauseosus* (Pall.) Britt. ssp. *nanus* (Cronq.) Keck 11, 413  
*Chrysothamnus parryi* (Gray) Greene ssp. *montanus* L. C. Anders. 10, 11, 520  
*Cicuta bulbifera* L. 87, 370, 578, 605, 822, 828  
*Claytonia lanceolata* Pursh var. *flava* (A. Nels.) C. L. Hitchc. 210, 228, 527, 528, 575, 765, 766, 917  
*Cleomella plocasperma* S. Wats. 665  
*Collomia debilis* (S. Wats.) Greene var. *camporum* Payson 163, 348, 911  
*Corallorhiza wisteriana* Conrad 164, 165, 436, 460, 511, 513, 674, 675, 676  
*Cornus nuttallii* Audubon ex Torr. & Gray 32, 93, 114, 130, 206, 207, 272, 301, 302, 309, 315, 389, 477, 494, 497, 503, 530, 625, 626, 655, 668, 728, 738, 739, 848  
*Corydalis caseana* Gray var. *hastata* (Rydb.) Hitchc. 131, 134, 187, 392, 811, 847, 928  
*Coryphantha missouriensis* (Sweet) Britt. & Rose 160  
*Coryphantha vivipara* (Nutt.) Britt. & Rose 332, 481, 615-617, 652, 710, 800  
*Crepis bakeri* Greene ssp. *idahoensis* Babcock & Stebbins 344  
*Cryptantha breviflora* (Osterhout) Payson 343, 518, 772  
*Cryptantha caespitosa* (A. Nels.) Payson 62, 343, 584  
*Cryptantha propria* (A. Nels. & J. F. Macbr.) Payson 343  
*Cryptantha simulans* Greene 383  
*Cryptogramma stelleri* (S. G. Gmel) Prantl 293  
*Cuscuta denticulata* Engelm. 922  
*Cymopterus corrugatus* M. E. Jones 645  
*Cymopterus davisii* Hartman 319  
*Cymopterus douglassii* Hartman & Constance 35, 320, 571  
*Cymopterus ibapensis* M. E. Jones 571  
*Cyperus rivularis* Kunth 265, 525, 607, 826  
*Cypripedium calceolus* L. ssp. *parviflorum* (Salisb.) Fern. 154, 258, 269, 316, 464, 511, 512, 609, 619, 681  
*Cypripedium fasciculatum* Kellogg ex S. Wats. 62, 116, 117, 134, 135, 188, 261, 405, 584, 655, 681, 811  
*Dasynotus daubenmirei* I. M. Johnston 141, 187, 392, 399, 637  
*Dimeresia howellii* Gray 15, 72, 363  
*Dodecatheon dentatum* Hook. 20, 134, 811, 833  
*Douglasia idahoensis* D. Henderson 48, 331, 562, 566, 580  
*Downingia bacigalupii* Weiler 897  
*Draba apiculata* C. L. Hitchc. 262, 347, 827, 900  
*Draba argyrea* Rydb. 347, 348  
*Draba fladnizensis* Wulfen 111, 347, 587, 604  
*Draba incerta* Payson 155, 262, 347, 447, 603, 743  
*Draba trichocarpa* Rollins 138, 563, 592, 596, 725  
*Dryopteris cristata* (L.) Gray 149, 578, 614, 908  
*Eatonella nivea* (D. C. Eat.) Gray 72, 683  
*Eburophyton austiniiae* (Gray) Heller 302, 328, 485  
*Elaeagnus commutata* Bernh. ex Rydb. 148, 270, 271, 550, 557, 867  
*Epilobium palustre* L. 264, 303, 398, 442, 464, 515  
*Epipactis gigantea* Dougl. ex Hook. 4, 23, 24, 125, 127, 171, 172, 332, 516, 547, 567, 585, 610, 618, 681, 735, 746  
*Equisetum scirpoides* Michx. 233, 257, 369  
*Erigeron engelmannii* A. Nels. var. *davisii* Cronq. 190, 344, 524, 585  
*Erigeron humilis* Graham 191, 250, 336, 571, 587  
*Erigeron latus* (A. Nels. & J. F. Macbr.) Cronq. 15, 191, 242, 641, 801, 838  
*Erigeron salmonensis* S. J. Brunsfeld & Nesom 124, 567  
*Eriogonum capistratum* Reveal var. *welshii* Reveal 713  
*Eriogonum douglasii* Benth. var. *douglasii* (S. Stokes) Reveal 204, 645, 671  
*Eriogonum meledonum* Reveal 563, 592, 596, 713  
*Eriogonum shockleyi* S. Wats. var. *packardiae* Reveal 713

- Eriogonum* sp. nov. (War Eagle Mountain) 713  
*Eriophorum viridicarinum* (Engelm.) Fern. 398, 464, 514, 740, 894, 926  
*Erythronium grandiflorum* Pursh var. *nudipetalum* (Applegate) Hitchc. 21, 22, 521  
*Festuca subuliflora* Scribn. 133, 487  
*Gaultheria hispidula* (L.) Muhl. ex Bigelow 108, 201, 260  
*Gentiana propinqua* Richards. 241, 281, 336, 619, 689  
*Gentiana tenella* Rottb. 5, 281, 330, 802, 803  
*Gilia polycladon* Torr. 158, 160  
*Grindelia howellii* Steyermark 501, 660, 736, 764, 813  
*Gymnosteris nudicaulis* (Hook. & Arn.) Greene 33, 160  
*Habenaria obtusata* (Banks) Richards. 182, 199, 269, 290, 398, 514, 681, 770, 829, 830, 831, 868  
*Hackelia davisii* Cronq. 157, 278, 289, 332, 567, 642  
*Hackelia ophiobia* R. L. Carr 150  
*Halimolobos perplexa* (Henderson) Rollins var. *perplexa* 49, 339, 383, 560, 643, 723  
*Haplopappus aberrans* (A. Nels.) Hall 50, 307, 457, 612  
*Haplopappus bloomeri* (Hook.) Gray 307, 457, 611, 734  
*Haplopappus hirtus* Gray var. *sonchifolius* (Greene) M. E. Peck 307, 536  
*Haplopappus insecticruris* Henderson 12, 36, 242, 307, 339, 457, 458, 536  
*Haplopappus integrifolius* Gray 307, 457, 536  
*Haplopappus liatridiformis* (Greene) St. John 12, 276, 307, 413, 425, 457, 536  
*Haplopappus radiatus* (Nutt.) Cronq. 12, 51, 307, 411, 517, 536, 774  
*Haplopappus uniflorus* (Hook.) T & G. var. *howellii* (Gray) Peck 307, 413, 536  
*Howellia aquatilis* Gray 297, 400, 419, 469, 473, 474, 555, 715, 748, 762, 763, 769  
*Hymenoxys richardsonii* (Hook.) Cockerell 481  
*Hypericum majus* (Gray) Britt. 197, 284, 578  
*Ivesia tweedyi* Rydb. 141  
*Juncus effusus* L. var. *pacificus* Fern. & Wieg. 97, 131, 135, 495, 811  
*Juncus hallii* Engelm. 221, 681, 904  
*Juncus hemiendytus* F. J. Herm var. *abjectus* (F. J. Herm.) Ertter 247  
*Juncus tiehmii* Ertter 247, 925  
*Kobresia bellardii* (All.) Degl. ex Loisel. 69, 84, 531, 717, 828  
*Kobresia simpliciuscula* (Wahlenb.) Mackenzie 29, 111, 177, 186, 249, 381, 398, 472, 681, 717, 921  
*Ledum groenlandicum* Oeder 17, 108, 170, 173, 181, 201, 232, 237, 260, 324, 369, 407, 428, 429, 443, 597, 685, 700, 701, 716, 760, 832, 865  
*Lepidium davisii* Rollins 92, 216, 217, 222, 242, 644, 645, 724, 801, 835  
*Lepidium papilliferum* (Henderson) A. Nels. & J. F. Macbr. 339, 610, 835  
*Leptodactylon glabrum* Patterson & Yoder-Williams 545, 659  
*Leptodactylon pungens* (Torr.) Nutt. ssp. *hazeliae* Meinke 545, 560, 569, 664  
*Lesquerella kingii* S. Wats. var. *cobrensis* Rollins & Shaw 158, 160  
*Lesquerella paysonii* Rollins 747  
*Lewisia kelloggii* K. Brandeg. 348  
*Lobelia kalmii* L. 464, 894  
*Lomatium rollinsii* Math. & Const. 52, 524, 559, 564, 585, 750, 751  
*Lomatium salmoniflorum* (Coult. & Rose) Mathias & Constance 834  
*Lomatogonium rotatum* (L.) Fries ex Fern. 251, 252  
*Ludwigia polycarpa* Short & Peter 798  
*Lupinus uncialis* S. Wats. 665  
*Lychnis apetala* L. var. *montana* (Wats.) Hitchc. 111, 541, 571  
*Lycopodium inundatum* L. 16, 105-107, 280, 379, 578, 601, 609, 662, 663, 737  
*Lycopodium sitchense* Rupr. 83, 396  
*Machaeranthera laetevirens* Greene 208  
*Maianthemum dilatatum* (Wood) A. Nels. & J. F. Macbr. 156, 408, 409, 444  
*Malacothrix glabrata* (D. C. Eat. ex Gray) Gray 211  
*Mentzelia mollis* M. E. Peck 285, 286, 294, 665, 788, 801, 838  
*Mentzelia torreyi* Gray var. *acerosa* (M. E. Jones) Barneby 72, 645  
*Mertensia bella* Piper 722  
*Mimulus clivicola* Greenm. 131, 133-135, 292, 296, 328, 502, 504, 505, 524, 778  
*Mimulus patulus* Pennell 25, 667  
*Mimulus ringens* L. 179, 196, 292  
*Mimulus washingtonensis* Gand ssp. *ampliatu* ssp. nov. 25, 292, 524, 667  
*Mirabilis macfarlanei* Constance & Rollins 68, 176, 383-385, 524, 559, 569, 585, 773, 857-860  
*Muhlenbergia racemosa* (Michx.) B. S. P. 3, 240, 265, 398, 441, 673, 680, 853  
*Musineon lineare* (Rydb.) Mathias 39, 62, 263, 532, 584, 593, 903, 918



- Nemacladus rigidus* Curran 72  
*Nymphaea tetragona* Georgi 345, 379, 406, 678, 699, 757  
*Oenothera psammophila* (A. Nels. & J. F. Macbr.) W. L. Wagner, Stockhouse & Klein 228, 459, 815, 816, 883  
*Oxytheca dendroidea* Nutt. 33, 160, 245, 246, 712  
*Papaver kluanense* D. Love 336, 430, 507, 571, 693  
*Parnassia kotzebuei* Cham. var. *kotzebuei* 121, 226, 440, 531, 587  
*Pediocactus simpsonii* (Engelm.) Britt. & Brown var. *robustior* (Coul.) L. Benson 30, 31, 202, 204, 344, 361, 524, 616  
*Penstemon compactus* (Keck) Crosswhite 40, 62, 263, 412, 584, 593, 608, 899, 903  
*Penstemon elegantulus* Pennell 53, 133, 295, 344, 591, 778, 801  
*Penstemon idahoensis* Atwood & Welsh 62, 63, 67, 523  
*Penstemon janishiae* N. Holmgren 359  
*Penstemon lemhiensis* (Keck) Keck & Cronq. 1, 2, 54, 414, 595, 690-692, 761, 767, 768, 892  
*Peraphyllum ramosissimum* Nutt. 100, 118, 255, 383, 537, 553, 759, 785, 807, 867  
*Petasites sagittatus* (Banks ex Pursh) Gray 398, 578  
*Peteria thompsoniae* S. Wats. 72, 679  
*Phacelia inconspicua* Greene 33, 339, 576, 839  
*Phacelia lyallii* (Gray) Rydb. 330, 447, 594  
*Phacelia minutissima* Henderson 339  
*Phlox idahonis* Wherry 187, 387, 392, 632, 811  
*Phlox kelseyi* Britt. var. *kelseyi* 464  
*Physaria didymocarpa* (Hook.) Gray var. *lyrata* C. L. Hitchc. 602, 731  
*Picea glauca* (Moench) Voss 181, 398  
*Pityrogramma triangularis* (Kaulfuss) Maxon 586, 784, 804, 919  
*Polypodium glycyrrhiza* D. C. Eat. 86, 134, 156, 321, 431, 439, 451  
*Polystichum braunii* (Spencer) Fee 293, 620, 741, 742, 797, 870  
*Polystichum kruckebergii* W. H. Wagner 448, 797, 870, 873  
*Potamogeton diversifolius* Raf. 81, 432, 714, 916  
*Primula alcalina* Cholewa & D. Henderson 162, 416-418, 472, 577, 600  
*Primula incana* M. E. Jones 416, 418, 91  
*Primula wilcoxiana* nom. nud. 912  
*Psilocarphus tenellus* Nutt. 453, 925  
*Psoralea physodes* Dougl. ex Hook. 300  
*Ranunculus gelidus* Kar. & Kir. 85, 587, 758  
*Ranunculus pygmaeus* Wahlenb. 85, 220, 404, 531, 587  
*Rhinanthus minor* L. 828, 863  
*Rhynchospora alba* (L.) Vahl 169, 173, 231, 379, 396, 650, 781, 817  
*Ribes howellii* Greene 782  
*Ribes sanguineum* Pursh 390, 538, 782  
*Ribes wolfii* Rothrock 13, 235, 548  
*Rubus bartonianus* M. E. Peck 96, 524, 551, 560, 569  
*Rubus pubescens* Raf. 181, 905, 906  
*Rubus spectabilis* Pursh 306, 338, 461, 824, 844, 848  
*Salicornia rubra* A. Nels. 310, 599, 840, 841, 852  
*Salix candida* Fluegge ex Willd. 26, 101, 110, 122, 177, 312, 314, 391, 398, 426, 452, 464, 578, 609, 780, 894, 910  
*Salix farriarum* Ball 26, 55, 122, 223, 313, 348, 657  
*Salix glauca* L. 27, 110, 239, 304, 386, 531  
*Salix pedicellaris* Pursh 110, 240, 452, 613, 780  
*Sanicula marilandica* L. 97, 702  
*Saxifraga adscendens* L. ssp. *oregonensis* (Raf.) Bacig. 56, 587  
*Saxifraga bryophora* Gray var. *tobiasiae* J. Grimes & Packard 57, 570  
*Saxifraga cernua* L. 58, 111, 239, 571, 587, 597, 628, 896  
*Scheuchzeria palustris* L. 18, 64, 97, 168, 379, 737, 780  
*Scirpus cyperinus* (L.) Kunth 16, 104, 154, 170, 197, 244, 277, 373, 472, 578, 755, 820, 828, 909  
*Scirpus hudsonianus* (Michx.) Fern. 514  
*Scirpus subterminalis* Torr. 82, 112, 153, 154, 362, 514, 681, 703, 721, 737, 757, 823  
*Scutellaria nana* Gray 645  
*Sedum borschii* (Clausen) Clausen 166, 851  
*Sedum rupicolum* G. N. Jones 166, 851  
*Senecio streptanthifolius* Greene var. *laetiflorus* (Greene) J. F. Bain 66  
*Silene scaposa* Robins. var. *lobata* C. L. Hitchc. & Maquire 356, 438  
*Silene spaldingii* S. Wats. 59, 154, 204, 275, 326, 356, 438, 465-468, 471, 500, 745, 775  
*Solidago spectabilis* (D. C. Eat.) Gray 98  
*Sphaeromeria potentilloides* (Gray) Heller 357  
*Stellaria calycantha* (Ledeb.) Bong. var. *calycantha* 454, 558, 688  
*Stellaria oxyphylla* Robins. 688  
*Stipa pinetorum* M. E. Jones 308  
*Stipa viridula* Trin. 9, 71, 266-268, 323, 480, 481, 584, 686, 843  
*Streptopus streptopoides* (Ledeb.) Frye & Rigg var. *brevipes* (Baker) Fassett 254  
*Sullivantia purpusii* (Brand) Rosendahl 729  
*Synthyris platycarpa* Gail & Pennell 141, 178, 187, 188, 205, 392, 655, 658

- Tauschia tenuissima* (Geyer ex Hook.) Mathias & Constance 19, 488, 493, 533, 534, 749  
*Telesonix jamesii* (Torr.) Raf. 648  
*Tellima grandiflora* (Pursh) Dougl. ex Lindl. 156, 655, 795  
*Thalictrum dasycarpum* Fisch. & Ave-Lall. 102, 147, 240, 415, 820  
*Thelypodium laciniatum* (Hook.) Endl. var. *streptanthoides* (Leiberg) Pays. 6  
*Thelypodium repandum* Rollins 6, 139, 638  
*Thelypteris nevadensis* (Baker) Clute ex Morton 18, 134, 489, 849  
*Thelypteris phegopteris* (L.) Slosson 809, 875  
*Thlaspi aileeniae* Rollins 563, 725  
*Tofieldia glutinosa* (Michx.) Pers. ssp. *absona* C. L. Hitchc. 60, 349, 633  
*Tofieldia glutinosa* (Michx.) Pers. ssp. *brevistyla* C. L. Hitchc. 349, 711  
*Townsendia scapigera* D. C. Eat. 669  
*Trientalis arctica* Fisch. ex Hook. 201, 317, 379, 737, 921  
*Trientalis latifolia* Hook. 14, 86, 134, 156, 236, 309, 461, 549, 655, 658, 811  
*Trifolium longipes* Nutt. var. *multipedunculatum* (Kennedy) Barneby 282, 374  
*Trifolium owyheense* Gilkey 279, 298, 299  
*Trifolium plumosum* Dougl. ssp. *amplifolium* (J. S. Martin) J. Gillett 283  
*Vaccinium oxycoccos* L. 17, 64, 70, 106, 108, 173, 201, 231, 232, 324, 369, 379, 428, 429, 484, 677, 737, 820  
*Viburnum opulus* L. var. *americanum* Ait. 820  
*Viola sempervirens* Greene 131, 309, 461, 811  
*Waldsteinia idahoensis* Piper 187, 188, 392, 450









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Moseley, Robert K.; Mancuso, Michael; Hedrich, Anne; Shaw, Nancy L., compilers.  
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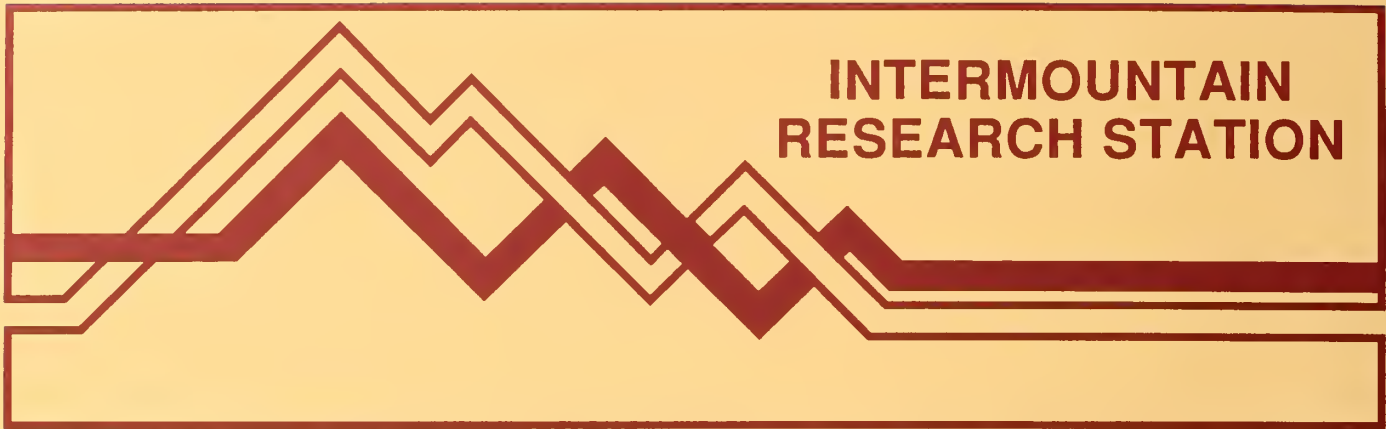
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**KEYWORDS:** conservation, ecology, endangered species, environmental management, geographical distribution, monitoring, taxonomy, wild plants

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